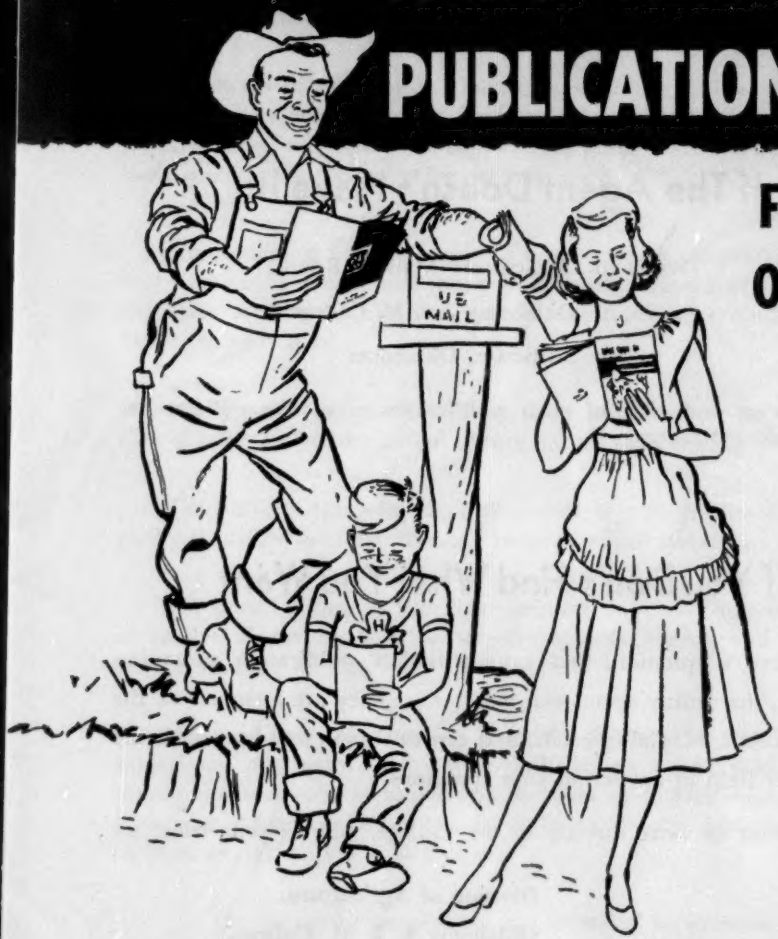
What's New in ..

No. 32
July, 1956

FARM AND HOME PUBLICATIONS

For Oklahoma



DIVISION OF AGRICULTURE
Oklahoma A. & M. College, Stillwater

How To Get Publications

Try Your County Agent First

Your county farm and home agents have most of the publications listed here. They also have other useful publications, including those issued by the U. S. Department of Agriculture. In most counties, the agent's office is at the county courthouse.

If The Agent Doesn't Have It

Write to—Agriculture Mailing Room,
Oklahoma A. & M. College,
Stillwater, Oklahoma

Give number and title of each publication you want. Please see page 3 before writing.

If You Don't Find What You Want

If you have a question, and cannot find a publication promising an answer, the county agents can help you. They are members of the Oklahoma A. & M. College staff, and can call upon any branch of the College for help in answering your questions.

If you prefer to write directly to the College, address your letter to:

Division of Agriculture,
Oklahoma A. & M. College,
Stillwater, Oklahoma

Please Read This Page
Before Ordering Publications

You Can Help Us Serve You

What's New is printed to help you select the publications you can use. Your attention to the following request will help us spend our funds most efficiently, and thereby help you most effectively.

Residents of Oklahoma: Publications of the Oklahoma A. & M. College are printed especially for you. Please feel free to ask for any which you can use. Only one copy of each publication can be sent unless some special reason is given for needing more.

Non-residents: Single copies of one or a few publications will be sent free; but it is suggested that your own state experiment station and extension service are likely to have publications better suited to conditions in your state.

Students of Agriculture: Please make use whenever possible of the files of bulletins in your school library, rather than writing for bulletins.

Teachers of Agriculture: Five copies of any publication will be gladly furnished for reference use in your school library.

Libraries: Libraries will, upon request, be placed on a mailing list to receive all publications of the Experiment Station and Extension Service as they appear.

Mailing Lists: Mailing lists to receive publications on a particular subject are not maintained. New publications are available through county agents as soon as issued, and the most up-to-date information on particular subjects will be sent in reply to inquiry addressed to the Division of Agriculture at Stillwater.

The foregoing suggestions are intended to prevent waste rather than to limit the distribution of publications. **If you can use a publication, do not hesitate to ask for it.**

Recent Publications

E-649. 4-H Sorghum Manual. Wesley Chaffin. 16 pp., 14 figs.

Designed to help 4-H Club members in the sorghum project, this circular covers such information as soil adaptation, fertilizers, seedbed preparation, recommended sorghum varieties, seed treatment, planting times and rates, cultivation, harvesting and storing, and preparation of the sorghum exhibit.

E-648. Industry Report on Broiler and Turkey Marketing. 8 pp.

This circular contains results of a conference in which producers, processors, retailers and consumers viewed and discussed their problems together. The conference emphasized that the problems of each group were interrelated and could best be solved by developing a program together.

E-647. If I Creep-Feed . . . ? Wayne Miller and Arnold B. Nelson. 8 pp., 4 figs.

The answers to 15 questions on creep-feeding are provided in this new circular. The information they contain may help you decide if providing a grain ration for suckling calves might be desirable in your beef cattle program. A few of the questions asked are: How much increased gain can I expect? What feed should I use? How much feed will be required per calf? At weaning, will the creep-fed calves sell for slaughter at a higher price per 100 pounds than those not creep-fed? and, Will high-quality creep-fed calves bring a higher price as stockers or feeders at weaning than similar calves not creep-fed?

E-646. Seeding Native Grasses for Pasture and Erosion Control. Clarence E. Bunch and Edd Roberts. 32 pp., 32 figs., 1 table.

There is a definite place for seeding native grasses in Oklahoma. In droughty, shallow, poor soils, native grasses will do better than a combination of improved pastures. However, native grasses will not stand over-use. This circular has instructions for planning the native grass planting, planting methods and equipment, planting under special conditions, care of native grass plantings, planting other introduced and native grasses, and seeding native grasses for watersheds.

E-645. Irrigation Water from Wells. Robert B. Duffin. 28 pp., 10 figs., 1 chart.

This circular deals with considerations necessary in planning and completing an irrigation well. Points covered include: Underground water, test hole information, driller-owner responsibilities, pumping costs, size and diameter, depth of well penetration, gravel treatment, developing wells naturally, casings and screens, developing the well, test pumping, fitting the pump to the well, facts about wells, wells in batteries, treating wells, and proposed well drilling agreement.

E-644. A Handbook of Farmers' Cooperative Associations in Oklahoma. A. W. Jacob. 16 pp., 7 figs., 1 table.

Cooperatives as they exist in Oklahoma today are discussed in this circular as well as what is involved in setting up a cooperative. The main topics of this bulletin are: Size of today's cooperatives, deciding if a cooperative is needed, legal setup, suggested steps in forming an association, securing articles of incorporation, adopting by-laws, membership application or agreement, and duties of members, directors and employees.

E-643. Agriculture Marketing Job for Producers, Handlers, Consumers. A. W. Jacob. 6 pp., 2 charts.

This circular describes, in brief, how the Oklahoma Agricultural Extension Service marketing specialists can help producers, handlers, and consumers find solutions to the agricultural marketing problem by supplying information based on research and experience. A list of marketing specialists in the Extension Service is included.

E-642. 4-H Projects Requirements for Oklahoma. Alice Carlson. 24 pp., 3 figs.

4-H Club leaders and members will find this circular a handy guide to the 56 projects in the Oklahoma 4-H Club program. The requirements listed in this publication give only the least amount of work that must be done on each project. There are special circulars for most of the projects, and this bulletin tells how they may be obtained.

E-641. Irrigation Steps to Consider. Robert B. Duffin. 4 pp., 4 figs.

Prospective irrigators have many questions to consider before they install any type of irrigation system on their land. Twelve questions pertinent to irrigation are briefly answered in this circular in an attempt to show some of the problems involved.

E-640. A New Seedbed for Cotton. George E. Stroup. 8 pp., 7 figs., 1 table.

A new type cotton seedbed developed especially for Oklahoma conditions by the Agricultural Experiment Station is described in this publication. The new seedbed firms moist soil close around seeds, provides water furrows to keep standing water and crusting soil away from the seed row, and has a center ridge to protect seedlings from wind and wind-blown soil. It also appears to warm up faster than furrows, presents no difficulty for early cultivation, and gives more uniform stands for satisfactory mechanical harvesting. Special equipment devised by the Experiment Station research engineers for planting cotton on this new type seedbed are described, and illustrations are included.

E-639. Home and Community Improvement Through Planned Landscaping. J C Garrett. 8 pp.

This circular is designed to help individuals improve their home grounds and aid groups of people interested in making their communities more attractive. Included are the steps in organizing community-betterment groups and a list of improvement activities that can be carried out once the groups are formed.

E-638. Our Soil and Its Care. Wesley Chaffin and Edd Roberts. 20 pp., 34 figs.

Rebuilding our depleted soils and adequately conserving them for both present and future needs is the subject of this circular. Discussed are such things as how soils lose fertility, holding soils in place, improving soil fertility, the relationship between water and fertility, and special soil conditions such as the deep sandy soils, and garden soil.

E-620. Crops for Silage. Wesley Chaffin. 8 pp., 6 figs., 1 table.

This circular lists all of the Oklahoma crops that are suitable for silage and gives instructions for ensiling them.

E-582. Control of Weeds in Oklahoma. Wesley Chaffin. 32 pp., 17 figs., 1 table.

This circular contains a discussion of many phases of weed control including types of weeds, weed control chemicals, spray equipment, and specific control methods for most of the common weeds in Oklahoma.

E-522. 4-H Forestry Manual. Harry P. Rigdon. 12 pp., 6 figs.

4-H members enrolled in the forestry project will find this circular handy for carrying out their required work. Objects of 4-H forestry work are listed as well as the goals, project requirements, and scoring and awards. Also included are types of forestry projects for individuals and groups, instructions for gathering, drying, pressing, and mounting leaves.

E-520. 4-H Hunting and Fishing Manual. Ford Mercer. 8 pp., 4 figs. Boys and girls enrolled in the 4-H hunting and fishing project will find that this circular contains not only information on the benefits of hunting and fishing, but also ways to plan ahead for future generations by conserving soil, water, vegetation, and other resources which provide habitat or homes for fish and game.

E-519. 4-H Wildlife Manual. Section 1. Ford Mercer. 8 pp., 1 fig.

This circular is designed to help those enrolled in the 4-H wildlife project by pointing out ways to participate in a continuous demonstration of wildlife management and habitat improvement on a small part of the home farm or ranch.

E-517. 4-H Safety and Fire Manual. H. Marie Pickett and Harry P. Rigdon. 16 pp., 17 figs.

Full instructions on what to do in the 4-H safety project or the 4-H fire project are included in this circular. Club members enrolled in these projects will learn about burns, scalds and fires, firearms, poisonings, poisonous gas, drownings, farm or work accidents, and many other things concerned with safety in general.

E-504. Choose a Cotton Variety Adapted to Your Conditions. George E. Stroup and John M. Green. 12 pp., 3 figs., 4 tables.

The object of this circular is to help you choose a variety of cotton that will give the most profit in a given locality. Discussed are the factors in variety selection, recommended varieties, harvest method and variety choice, varieties for irrigation, and fiber coarseness. The variety information given is based upon several years testing of each variety at several locations over the State by the Agricultural Experiment Station, and also upon the experiences of Oklahoma farmers with the different varieties.

E-502. Home Freezing. Ruth Petermann. 16 pp., 4 figs., 2 charts.

Directions for freezing fruits, vegetables, meats, poultry and several miscellaneous foods are given in this circular.

E-414. Vegetable Insect Control. C. F. Stiles. 8 pp., 16 figs.

Instructions for controlling vegetable insects of both the chewing and piercing type comprise this circular. Many insects are illustrated, and there is an insect control guide that lists all the major vegetable crops, the insects that prey on these crops, the kind of injury the insects inflict on the plants, and the best control for the pests.

E-324. 4-H Corn Manual. Wesley Chaffin. 12 pp., 10 figs.

Full instructions for participating in the 4-H corn project are included in this circular. Topics covered are: General requirements for enrolling in the project, soil adaptation, seedbed preparation, planting, hybrid strains, seed treatment, fertilizers, cultivation, harvesting, storing, and preparing the corn exhibit.

E-260. Home Canning of Fruits and Vegetables. Ruth Petermann. 24 pp., 4 figs., 3 charts.

This publication gives a thorough coverage of home canning fruits and vegetables. Four processing methods are discussed, and there are instructions for the proper use of canners and different types of containers. Special charts give the best methods of canning and the processing times for specific vegetables and fruits, and there is a table giving the approximate yield of canned fruits and vegetables from fresh foods. How to choose foods for canning and how to detect spoilage in canned foods are also covered.

L-9. A New Disk-type Fertilizer Attachment. Gaylord Hanes.

Proper fertilizer placement is important in getting satisfactory results from fertilizer at planting time. The new fertilizer applicator described in this circular will help you place fertilizer where cotton and sorghum plants can make the best of it. Included are illustrations of this new fertilizer attachment.

L-8. Produce Good Eggs. Sewell Skelton.

Egg producers will find this leaflet full of clues on how to produce good quality eggs. Colored pictures show AA, A, B, and C grade eggs in both the shell and broken open appearance.

L-7. Mrs. Consumer . . . Buy Grade A Eggs. Sewell Skelton.

A handy leaflet giving tips on identifying different grade eggs. Featured are colored illustrations of AA, A, B, and C grade eggs.

L-6. Cutting Costs in Farming Today. D. B. Jeffrey.

This publication points out ways by which dollars can be made to do more work for farmers.

L-5. Fresh Vegetable Buying Guide. In order to select fresh vegetables at the peak of their quality, try using this vegetable buying guide. Not only does it include tips on how to buy, but this leaflet tells you how many servings per pound most vegetables yield and how to store specific vegetables.

L-4. The Spotted Alfalfa Aphid. C. F. Stiles.

The spotted alfalfa aphid has now spread over all of Oklahoma. This publication tells how to recognize the aphid, the origin of this insect, host plants, how it produces, how it damages alfalfa, the time of most serious damage, its natural control, its chemical control, insecticide recommendations, harmful residues, and when the fields should be treated for this pest.

L-3. Oklahoma's Own Allgold, Redgold, and Nemagold Sweet Potatoes.

This leaflet discusses three new sweet potatoes developed in Oklahoma—Allgold, Redgold, and Nemagold. It tells why these new varieties are better, what their food value is, how they resist hot weather, and how they may be purchased. There is also information on growing any of these new varieties.

L-2. Oklahoma's Program of Profit Pointers for Turkey Growers.

A management program for turkey growers is outlined in this leaflet. Topics covered are: Stock, brooding, range rearing, feeding, disease control, marketing, and financing.

L-1. Oklahoma's Program of Profit Pointers for Turkey Breeders.

This leaflet gives, in brief, a management program for turkey breeders. Discussed are: Stock, selection of breeders, mating the flock, care and selection of eggs, housing, feed, water, and disease control.

. . . . Oklahoma's Program of Profit Pointers for Laying Hens. (A Leaflet)

This publication is a management program for laying hens, and covers such things as stock, space, disease control, feed, housing, ventilation, lights, and culling.

B-471. A Study of Vegetable Production and Marketing in Eastern Oklahoma. (June 1956) Durward Brewer. 24 pp., 6 figs., 5 tables.

This Agricultural Experiment Station bulletin presents the results of a survey made to determine the location, distance, and characteristics of the markets utilized by Oklahoma vegetable farmers. The study was made in order to discover means of improving the existing market methods and services and reducing the costs of these two things.

B-470. Feeding Trace Minerals to Beef Cattle in Oklahoma. (June 1956) A. B. Nelson, Robert Totusek, L. S. Pope, W. D. Gallup, and R. W. MacVicar. 12 pp., 5 tables.

Trace minerals—iron, cobalt, iodine, manganese and zinc—are usually provided to beef cattle in adequate amounts in practical rations fed under most farm conditions. However, deficiencies have been reported in feed crops produced in certain areas of the U. S. In order to determine the value of feeding trace mineral mixtures to range beef cattle, tests have been conducted in three areas of Oklahoma by the Agricultural Experiment Station. The results of tests conducted from 1949 through 1955 are summarized in this bulletin.

B-469. Research on the Spotted Alfalfa Aphid; a progress report. (May 1956) G. A. Bieberdorf and D. E. Bryan. 12 pp., 3 figs., 2 tables.

The Experiment Station initiated a study to establish control measures for the spotted alfalfa aphid when it first appeared in Oklahoma in 1954. The first steps were aimed at determining the characteristics and habits of the aphid which could be used as a basis for establishing control. Research in 1955 and 1956 has been related to chemical and biological control. In all, 13 insecticides have been tested; aphid parasites have been introduced to the State; and studies of alfalfa varieties showing resistance to aphid attack are being conducted. This bulletin reports results of research to date.

B-468. A Survey of Spinach Markets and Marketing in Eastern Oklahoma. (May 1956) Durward Brewer. 8 pp., 1 fig., 2 tables.

More than 97 percent of the spinach grown commercially in Oklahoma comes from Sequoyah, LeFlore, Haskell, Muskogee, Wagoner, and Tulsa counties. The Experiment Station recently undertook a survey to determine the farm characteristics and spinach marketing conditions as they exist in that area. Results showed that no precise system was followed by the individual producers in marketing their crops; canneries are the most important market outlet in the area; and the major problem is the lack of coordination between the planting and harvesting date of spinach by producers and the opening date or the beginning date of operation of the canneries for processing spinach. Further results of this study are summarized in this publication.

B-467. The Cost of Rearing Oklahoma Farm Children. (March 1956) James D. Tarver. 8 pp., 2 tables.

The principal objective of the study reported in this bulletin was to determine the costs of rearing Oklahoma farm children to 19 years of age using prices prevailing in 1954. It was found that the total cost runs to practically $11,600 per boy and $11,300 per girl through the first 18 years of life. Specific costs such as cost of birth, cost of food, cost of clothing, and others are discussed separately.

B-466. Education of the Oklahoma Farm Population. (February 1956) James D. Tarver. 24 pp., 7 tables.

This bulletin brings together and summarizes information on the educational attainments and opportunities of Oklahoma's present and future farm-operating families. Objectives of the study were to: (1) Measure changes in the school enrollment of Oklahoma youth, (2) determine changes in the educational attainment of the adult farm population of Oklahoma, and (3) describe two major educational trends in the State—the school consolidation movement and changes in the curriculum. It was found that, on the whole, Oklahoma compares favorably with the other 47 states in the educational status of its farm population, both youth and adult.

B-465. A Feed Crop Rotation for Central and Eastern Oklahoma. (January 1956) Fenton Gray and Horace J. Harper. 16 pp., 3 figs., 5 tables.

A crop rotation which will produce protein for livestock feed and at the same time maintain soil fertility and control erosion is needed on the smaller farms in central and eastern Oklahoma. A rotation designed to meet this need was tested by the Agricultural Experiment Station from 1941 through 1954. This bulletin reports results of this research and includes a suggested feed crop rotation for central and eastern Oklahoma.

C-138. Selecting the Most Profitable Time and Weight for Marketing Hogs in Oklahoma. (March 1956) George G. Judge and James S. Plaxico. 16 pp., 2 figs., 5 tables.

This Experiment Station circular gives information on the relation between feed input and weight gains at various stages in a pig's growth and makes suggestions for combining this information with your feed cost and your estimate of the probable market price

in order to reach a decision on whether to feed to a heavier weight or to sell.

MP-45. Feeding and Breeding Tests with Sheep, Swine, and Beef Cattle; progress report, 1955-1956. Department of Animal Husbandry and cooperating departments. (June 1956) 116 pp., 2 figs., 64 tables.

The 19 reports given at the April 21, 1956, Feeders' Day are revised and presented in this publication. Research topics included are: Fattening trials with western feeder lambs; aureomycin studies with sheep; probe backfat measurements on the live hog as an indication of carcass merit; the effect of level of wintering upon the production of two-year-old slaughter steers; protein supplements to milo rations for swine; phosphorus supplements for cattle and sheep, and other subjects. Also included are feed prices for 1955-56 Feeders' Day reports.

MP-44. Performance Tests of Corn Varieties and Hybrids, 1955. (January 1956) James S. Brooks and Hartwill Pass. 24 pp., 8 tables.

The 1955 Oklahoma Corn Performance Tests included 147 entries. Sixty-five hybrids were entered by seed corn producing or distributing companies. Three experimental hybrids were entered by these companies, and 50 experimental hybrids were entered by the Oklahoma Agricultural Experiment Station. Certified seed of 31 Experiment Station hybrids and one open-pollinated variety were also entered. This report contains the performance results of these varieties and hybrids at eight locations in Oklahoma.

T-63. Quality Control of Frozen Pastry. (June 1956) Eula Morris. 12 pp., 5 tables.

Homemakers frequently encounter difficulties in obtaining pastries which store well in home freezers over periods of time. Good pastry requires a relatively large amount of fat, and foods containing a high percentage of fat are particularly susceptible to changes in quality during storage. The study reported in this technical bulletin was undertaken to determine the relative performance of a hydrogenated vegetable shortening and of three types of lard in pastry that was frozen unbaked, then stored for varying periods of time.

T-62. Developing an Autosexing Columbian-patterned Variety of Chickens. (June 1956) George F. Godfrey, B. L. Goodman, and R. B. Thompson. 8 pp., 3 figs., 2 tables.

Autosexing varieties of chickens are those having a particular down color inheritance which allows easy separation of male and female chicks at hatching. Homozygous male chicks of an autosexing variety appear light and "splotchy" in down color while the homozygous female chicks are darker and usually similar to the down color of the breed from which they were developed. A silver-down-colored breed, the Silver Oklabar, has been tested for autosexing possibilities at the Oklahoma Agricultural Experiment Station, and this technical bulletin is a progress report of this research to date.

T-61. The Nitrogen, Phosphorus, Potassium and Ash Content of Castor Bean Hulls. (June 1956) Wade Parkey, James E. Webster, and D. L. Van Horn. 12 pp., 2 figs., 3 tables.

Because large quantities of castor bean hulls have been accumulating at hulling centers, interest has been expressed in the possible use of these hulls as fertilizer and mulching materials. In a study by the Experiment Station from 1951 through 1953, it was found that castor bean hulls compare favorably with cotton burs as a low grade source of nitrogen, phosphorus and potassium. Further results are also reported in this technical bulletin.

T-60. Physical Characteristics and Field Performance of Mechanically Graded, Acid Delinted Cottonseed. (April 1956) Jay Porterfield and Edward M. Smith. 24 pp., 8 figs., 21 tables.

The Agricultural Experiment Station initiated a study in 1953 to analyze the physical characteristics of acid delinted cottonseeds of several varieties and to determine the practicability of me-

chanically grading acid delinted cottonseeds. Data indicate that planting seeds can be graded very closely to an intermediate size and a high percentage of the seeds can be retained for planting. Field emergence of intermediate size cottonseed was greater than the emergence of either small or large diameter seed. Tests with commercial and experimental planters have shown that these machines perform much better using graded seeds than ungraded ones. Details of these and other results are reported in this technical bulletin.

T-59. Ginning Research at Chickasha, Oklahoma, 1951-1955. (April 1956) James A. Luscombe. 40 pp., 3 figs., 20 tables.

The response of cotton to mechanical treatment has an upper limit which is established by many elements prior to arrival of the cotton at the gin. The ginner should know the general production factors and potential of the cotton he is ginning if he is to obtain the best results. The objectives of this technical bulletin are to present information on some of the factors affecting the inherent qualities or potential of cotton produced in Oklahoma and north Texas and to report the results of ginning research at the Oklahoma Cotton Research Station for the five-year period 1950-55. In this research, various gin treatments were used on various types of cotton to determine the best response.

. . . . **Mineral Rights Management by Private Landowners.** (Great Plains Agricultural Council Publication No. 13) L. A. Parcher, John H. Southern, and S. W. Voelker. 32 pp., 1 fig., 1 table.

This report outlines landowners' problems of mineral rights management in the 13 Great Plains states, especially from the standpoint of oil and natural gas. However, it is not intended that adequate measures for protection and disposition of rights in other minerals should be ignored. Information and guiding principles are given so that an individual landowner may answer for himself such questions as: How may I lease my land to best advantage? Should I sell some of my subsurface rights? and, Should I reserve the mineral rights when I sell my land?

What the Letters Mean

Both letter and number should be used when asking for publications by mail.

The letter preceding the number of each publication indicates the general nature of the publication, as follows:

B—Bulletins. Recommendations based directly on research by the Experiment Station, together with "reasons why" as shown by data from tests made under Oklahoma conditions.

C—Station Circulars. Recommendations drawn from the research man's general knowledge.

E—Extension Circulars. A more inclusive discussion of some one phase of farming or homemaking.

L—Leaflets. Brief discussions of some one phase of farming or homemaking printed as folder-type publications.

MP—Miscellaneous Publications. A publication which is a different size from that of the usual bulletin series.

NC—North-Central Regional Publications. Reports of research by the Experiment Stations of several North-Central states, including Oklahoma.

OP—Oklahoma Pamphlets. A brief answer to some one specific question frequently asked by farmers and housewives.

SO—Southern Cooperative Series Bulletins. Reports of research by the Experiment Stations of several Southwestern states, including Oklahoma.

SW—Southwestern Regional Publications. Reports of research by the Experiment Stations of several Southwestern states, including Oklahoma.

T—Technical Bulletins. Usually of interest only to specialists in a particular field.

Publications Available

BUILDINGS AND FARM EQUIPMENT

Plans for farms buildings and farm labor-saving devices are available through county agents, who have catalogs of plans prepared by the Southern Farm Building Plan Service and the Midwest Farm Building Plan Service. These services are provided through cooperation of all state agricultural colleges in the respective regions.

Oklahoma Farm-fitted Plans, drawn especially to meet Oklahoma conditions, are available from the Oklahoma Farm Structures Service, A. & M. College, Stillwater. Please write the Service and tell the kind of building or equipment you wish to construct.

E-618. Your field sprayer.
E-599. The trench silo in Oklahoma.
E-593. Infra-red heat lamps for brooding pigs.
E-592. Regulating fertilizer distributors.
E-589. Brooding chicks with heat lamps or infra-red brooding.
E-573. Labor saving ideas for the farm.
E-541. Treated fence posts.
E-501. Line diagram method of setting implements.
E-490. Plans for temporary corn cribs.
E-481. Plans for Oklahoma farm homes.
E-450. Fence post production on Oklahoma farms.
E-438. Kitchen planning and arrangement.
L-9. A new disk-type fertilizer attachment.
B-461. Huller-cleaners for castor bean harvesters.
B-422. The development of the Oklahoma brush-type cotton stripper.
B-395. A two-row castor bean harvester.

CANNING

(See "Food Preservation.")

CHILD CARE

(See "Clothing," "Foods and Nutrition," and "Homemaking.")

CLOTHING

E-561. Your clothing dollar.
E-495. Foundation garments.
E-416. Fitting garments.
E-397. Tailoring.
E-396. Sewing tricks.
E-390. Children's clothing.
E-379. The family mending.

DAIRYING

(See also "Buildings and Farm Equipment," "Feedstuffs," "Pasture and Hay Crops," and "Marketing.")

E-622. Dairying tips for farm homemakers.
E-612. 4-H dairy feeding and management manual.

E-578. Facing winter feeding problems.
E-491. Artificial breeding of dairy cattle in Oklahoma.
E-431. Home dairying.
B-464. Consumer preferences for dairy products and services in Oklahoma City.
B-451. Some pricing and regulatory effects of the federal order on the Tulsa milkshed.
B-443. Alfalfa vs. prairie hay for dairy calves.
B-438. Milk test variations in the Tulsa milkshed.
B-436. A comparison of the bulk and can systems for handling milk on farms.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-401. Skunkweed flavor in cream and butter; a study of its cause and prevention.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
T-52. The effect of aureomycin upon the growth of dairy cows when administered orally, subcutaneously and intramuscularly.
T-47. Studies of the manufacture of cream-type cheese made from condensed cream.

FARM ECONOMICS

(See also "Marketing" and specific crops and kinds of livestock.)

Current Farm Economics, published bi-monthly, discusses the economic situation as it affects Oklahoma agriculture. It is mailed regularly free of charge to those who ask to be placed on the mailing list.

L-6. Cutting costs in farming today.
B-431. Some factors influencing mineral rights separation in land sales.
B-429. Factors related to levels of living in Oklahoma farm families.
B-426. Relative efficiencies of single-unit and multiple-unit cooperative elevator organizations.
B-419. The place of cotton as a source of farm income in southwestern Oklahoma.
B-412. Oklahoma land market activity, 1945-1952.
B-238. Oklahoma farm price statistics in 1910-38.
MP-36. Comparative cost per unit of nutrient element for different fertilizers.
SO-41. Comparisons of one-variety with multiple-variety cotton and related economic considerations.
------. Mineral rights management by private landowners.

FEEDSTUFFS

(See also "Dairying," "Field Crops," "Pasture and Hay Crops," and "Livestock Production.")

E-620. Crops for silage.
OP-106. Silage is feed insurance.
B-470. Feeding trace minerals to beef cattle in Oklahoma.
B-460. Supplements of different protein and vitamin-mineral content for wintering bred yearling heifers.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-437. The value of 20-, 30-, and 40-percent protein supplements for wintering heifer calves.
B-423. The value of prairie hay for milk production.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
C-137. Urea as a source of protein in livestock rations.
T-61. The nitrogen, phosphorus, potassium and ash content of castor bean hulls.

FIELD CROPS

(See also "Buildings and Farm Equipment," "Farm Economics," "Insects and Other Pests," "Pasture and Hay Crops," and "Soils.")

Agronomy Day Reports, giving results of tests with different varieties of the various crops, and comparative value of different cultural methods and cropping practices, may be obtained by writing the College and stating the crop or practice in which you are interested.

Corn

E-591. Higher corn yields.
MP-44. Performance tests of corn varieties and hybrids, 1955.
T-45. Effect of tree barriers on outcrossing in corn.
T-38. Effectiveness of distance and border rows in preventing outcrossing in corn.
T-36. The protein and crude carotenoid content of hybrid and open-pollinated corn; a summary.

Cotton

E-640. A new seedbed for cotton.
E-629. Fertilizer demonstrations; spring planted crops—1954.
E-615. Seed treatment for plant disease control.
E-576. More dollars from cotton.
E-504. Choose a cotton variety adapted to your conditions.
E-500. Stripper harvesting of cotton.
E-435. Marketing cotton in Oklahoma.
E-349. 4-H cotton club manual.
B-454. Cotton variety tests, 1950-54.
B-442. Quality of Oklahoma cotton is influenced by lint coarseness.
B-441. Boll weevil and bollworm control with insecticides; results of a 5-year study with 14 dusts and sprays.
B-422. The development of the Oklahoma brush-type cotton stripper.
B-419. The place of cotton as a source of farm income in southwestern Oklahoma.
B-386. One-variety cotton in Oklahoma.
B-382. Mechanizing cotton for low-cost production.
B-357. Effects of auxiliary gin equipment on grades of cotton, western Oklahoma, 1947 and 1948.
SO-41. Comparisons of one-variety with multiple-variety cotton and related economic considerations.
T-60. Physical characteristics and field performance of mechanically graded, acid delinted cottonseed.
T-59. Ginning research at Chickasha, Oklahoma, 1951-1955.
T-50. Factors affecting cotton planting for mechanized production.
T-37. Oklahoma cotton variety tests, 1944 to 1948.

Seed Sources

A list of certified seed growers and the seeds available may be obtained by writing Oklahoma Crop Improvement Association, A. & M. College, Stillwater, Okla.

MP-32. How new crop varieties developed at the Oklahoma Agricultural Experiment Station reach growers.

Soil-Improving Crops

See "Soils."

Sorghums

E-478. Sorghums for grain forage.
B-391. Darset; a combine-type darso.

B-355. Charcoal rot of sorghum.
B-340. Sirup sorghum varieties in Oklahoma sorghum performance tests 1943-1948.
T-55. Reaction of small grain varieties and hybrids to greenbug attack.
T-49. The chemical composition of sorghum roots and its relation to chinch bug injury.
T-44. Effect of the waxy gene on grain yields of sorghum.

Wheat

E-607. Results of small grain fertilizer demonstrations in Oklahoma.
E-596. Wheat is food.
E-569. How to protect farm stored wheat.
E-527. Wheat harvesting losses.
E-514. Wheat insects.
E-512. Oklahoma wheat improvement report.
E-488. Wheat varieties for Oklahoma.
E-484. Stinking smut of wheat.
E-467. Keep up production and save grain.
E-447. Wheat production in Oklahoma.
B-456. Wheat, oats, and barley in state-wide variety tests, 1950-54.
B-453. Concho winter wheat.
B-432. Wheat fertilization studies in western Oklahoma; progress report, 1951-52 and 1952-53.
B-426. Relative efficiences of single-unit and multiple-unit cooperative elevator organizations.

Other Crops

E-617. Small grain fertilizer demonstrations, Oklahoma—1954.
E-552. Castor bean production.
E-410. Peanuts in Oklahoma.
B-465. A feed crop rotation for central and eastern Oklahoma.
B-457. Cimarron oats.
B-456. Wheat, oats, and barley in state-wide variety tests, 1950-54.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-435. Response of winter oat varieties from winter and early spring seeding.
B-413. Dorman soybeans for Oklahoma.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
B-361. A handbook of peanut growing in the southwest.
T-61. The nitrogen, phosphorus, potassium and ash content of castor bean hulls.
T-55. Reaction of small grain varieties and hybrids to greenbug attack.

FERTILIZERS

(See "Soils.")

FLOWERS AND HOUSE PLANTS

Information on handling flowers, house plants, and decorative plantings under Oklahoma conditions is available in unnumbered mimeographed leaflets. Write Department of Horticulture, Oklahoma A. & M. College, Stillwater, Okla., stating the information desired.

E-521. House plant manual.
B-439. Spring production of China asters in the greenhouse in Oklahoma

FOOD PRESERVATION

E-603. A food preservation guide for Oklahoma families.
E-502. Home freezing.
E-441. Home canning of meats.
E-260. Home canning of fruits and vegetables.
OP-91. Storage of home canned and dehydrated foods.
OP-45. Home drying of fruits and vegetables.
OP-36. Storing fresh vegetables.
T-63. Quality control of frozen pastry.
T-41. The effect of added salt on the deterioration of high-fat cream stored without refrigeration.

FOODS AND NUTRITION

E-637. Turkey: delicious, enticing, nutritious.
E-636. Chicken: selection, care, use.
E-624. Beef buying tips.
E-623. Cook beef nutritious and appetizing.
E-605. Use your broiler.
E-595. Cooking fresh vegetables.
E-594. Cooking frozen foods.
E-584. Eat turkey the year round.
E-581. Let's eat chicken.
E-574. Meat—how to buy.
E-568. Cooking Oklahoma fish.
E-494. Meat cookery.
E-479. Tasty salads for good meals.
E-455. The egg and you.
E-425. Breadmaking in the home.
L-7. Mrs. consumer . . . buy Grade A eggs.
L-5. Fresh vegetable buying guide.
OP-108. Cooking dehydrated foods.
OP-68. One-dish meals.
B-264. Cured lamb for variety in Oklahoma farm meals.
T-41. The effect of added salt on the deterioration of high-fat cream stored without refrigeration.

FORESTRY

B-331. Cedar and pine as farm trees for Oklahoma.

4-H PUBLICATIONS

(See listing at end of bulletin)

FRUIT GROWING; PECANS

Variety recommendations based on annual tests under Oklahoma conditions are brought up to date each year and are available upon request. Address Department of Horticulture, Oklahoma A. & M. College, Stillwater, Okla.

E-511. Oklahoma pecans.
E-458. Bramble fruits.
E-457. Grapes in Oklahoma.
E-444. Fruit varieties recommended for Oklahoma.

E-432. Small fruits for the home garden.
B-450. Insecticides tests for pecan weevil control.
B-448. A summary of grape variety trials in Oklahoma.
B-427. Hayes and Patrick pecans—two new varieties for the cracking trade.
B-410. A summary of apple and peach variety trials in Oklahoma.
B-392. The pecan nut casebearer and its control.
T-13. The uneven ripening of concord grapes; chemical and physiological studies.

GARDENS

(See also "Vegetable Production.")

E-627. Using commercial fertilizer in your home garden.
E-586. Have fun, save money, be happy—grow your own garden.
E-487. Oklahoma garden planning guide.
E-486. Fall gardening.
L-3. Oklahoma's own Allgold, Redgold, and Nemagold sweet potatoes.
B-463. Vegetable variety trials; summary through 1954.
B-421. Studies of plant production methods for vegetable crops: cabbage, tomatoes, onions, melons and cucumbers.
MP-37. Amount of fertilizer per row, for gardens.

GENERAL

MP-35. Pounds of fertilizer per acre for different concentrations.
----- Sience serving agriculture: Report, Oklahoma Agricultural Experiment Station, 1950-1952.
----- 50 Years' Progress: Annual Report, 1952, Oklahoma Agricultural Extension Service.

GRASSES

(See also "Pasture and Hay Crops.")

E-646. Seeding native grasses for pasture and erosion control.
E-558. Know your native grassland.
B-455. Greenfield bermuda-grass.
B-444. Southland bromegrass; a new variety for Oklahoma conditions.
Forage crops leaflet No. 3. Forage crops recommended for Oklahoma.
Forage crops leaflet No. 8. Smooth brome.
Forage crops leaflet No. 13. Broomsedge.
Forage crops leaflet No. 17. Indian grass and Switch grass.
Forage crops leaflet No. 18. Side-oats grama.

HOME GROUNDS

E-639. Home and community improvement through planned landscaping.
E-551. Trees and shrubs.
E-546. Woody plant material for Oklahoma.
E-545. Planting and care of lawns.

HOMEMAKING

(See also "Foods and Nutrition," "Clothing," "4-H," and "Human Relationships.")

E-601. Decorate with accessories.
E-597. Make your draperies and curtains.
E-563. Plan the buy, and buy.
E-503. Fun to make and fun to play.
E-498. Slip covers.
E-439. Better home lighting.
E-437. John and Mary reach teen-age.
E-423. Household equipment.
E-386. Re-upholstering at home.
E-265. Refinishing furniture and care of woods.
B-378. Washing and handling marquisette curtains.

HUMAN RELATIONSHIPS

E-626. The road to mental health.
E-616. A better rural life through neighborhood improvement.
E-606. Courtesy smooths the way.
E-570. Health on the home front.
E-524. Half-way up the stairs.
E-440. Living happily together.
B-467. The cost of rearing Oklahoma farm children.
B-466. Education of the Oklahoma farm population.
B-459. The changing distribution of medical doctors in Oklahoma.
B-429. Factors related to levels of living of Oklahoma farm families.
B-383. Service relationships of farmers in Lincoln county, Oklahoma.
T-56. A study of rural manpower in southeastern Oklahoma.
T-46. A short scale for measuring farm family level of living: A modification of Sewell's socio-economic scale.

INSECTS AND OTHER PESTS

(See also specific crops, fruits, and kinds of livestock.)

E-630. Ten steps in controlling rats.
E-614. Household pest control.
E-499. Cotton insect control.
E-414. Vegetable insect control.
E-369. Chinchbug control practices for Oklahoma farms.
E-333. 4-H insect manual.
E-238. Beekeeping for beginners.
L-4. The spotted alfalfa aphid.
OP-79. Rodent control.
B-469. Research on the spotted alfalfa aphid; a progress report.
B-450. Insecticide tests for pecan weevil control.
B-441. Boll weevil and bollworm control with insecticides; results of a 5-year study with 14 dusts and sprays.
B-392. The pecan nut casebearer and its control.
B-353. The Texas harvester ant.
T-55. Reaction of small grain varieties and hybrids to greenbug attack.
T-49. The chemical composition of sorghum roots and its relation to chinch bug injury.

IRRIGATION

E-645. Irrigation water from wells..
E-641. Irrigation steps to consider.
E-632. Sprinkler irrigation in Oklahoma.
E-249. Irrigation in Oklahoma.

LIVESTOCK PRODUCTION

(See also "Dairying," "Feedstuffs," "Pasture and Hay Crops," and "Marketing.")

Beef Cattle

E-647. If I creep-feed . . .?
E-620. Crops for silage.
E-619. A cow and calf program for Oklahoma.
B-470. Feeding trace minerals to beef cattle in Oklahoma.
B-460. Supplements of different protein and vitamin-mineral content for wintering bred yearling heifers.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-437. The value of 20-, 30-, and 40-percent protein supplements for wintering heifer calves.
C-137. Urea as a source of protein in livestock rations.
MP-45. Feeding and breeding tests with sheep, swine, and beef cattle; a progress report, 1955-56.
MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.
T-54. Supplemental phosphorus requirement of range beef cattle in north central and southeastern Oklahoma.
T-43. Blood composition of normal beef cattle.

Sheep

MP-45. Feeding and breeding tests with sheep, swine, and beef cattle; a progress report, 1955-56.
MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.
C-137. Urea as a source of protein in livestock rations.

Swine

OP-51. Care of the brood sow during pregnancy.
B-447. Producing and dehydrating sweet potatoes for livestock feed.
B-415. Using hybrid vigor in producing market pigs.
C-138. Selecting the most profitable time and weight for marketing hogs in Oklahoma.
MP-45. Feeding and breeding tests with sheep, swine, and beef cattle; a progress report, 1955-56.
MP-43. Feeding and breeding tests with sheep, swine, and beef cattle, 1954-55.

Miscellaneous

E-583. Rabbit production.

Livestock diseases and pests

E-470. Controlling cattle grubs.

MACHINERY

(See "Buildings and Farm Equipment.")

MARKETING

(See also specific crops and types of livestock.)

E-648. Industry report on broiler and turkey marketing.
E-644. A handbook of farmers' cooperative associations in Oklahoma.
E-643. Agriculture marketing job for producers, handlers, consumers.

E-554. Broiler marketing.
E-549. Grading eggs.
E-463. Marketing fruits and vegetables.
E-462. Marketing dairy products in Oklahoma.
B-464. Consumer preferences for dairy products and services in Oklahoma City.
B-451. Some pricing and regulatory effects of the federal order on the Tulsa milkshed.
B-426. Relative efficiencies of single-unit and multiple-unit cooperative elevator organizations.
B-471. A study of vegetable production and marketing in eastern Oklahoma.
B-468. A survey of spinach markets and marketing in eastern Oklahoma.
C-138. Selecting the most profitable time and weight for marketing hogs in Oklahoma.
SO-41. Comparisons of one-variety with multiple-variety cotton and related economic considerations.

ORCHARDS

(See "Fruit Growing.")

PASTURE AND HAY CROPS

(See also "Feedstuffs," "Field Crops," "Grasses," and specific types of livestock.)

E-646. Seeding native grasses for pasture and erosion control.
E-515. Sweet clover.
E-507. Lespedeza. A good pasture plant.
E-497. Alfalfa, queen of forage crops.
B-455. Greenfield bermuda-grass.
B-452. Lahoma sweet sudan grass.
B-444. Southland bromegrass; a new variety for Oklahoma conditions.
B-423. The value of prairie hay for milk production.
B-403. Feeding tests with mungbean forage and seed in dairy rations.
B-401. Skunkweed flavor in cream and butter; a study of its cause and prevention.
B-400. Feeding tests with threshed peanut hay for dairy cattle.
Forage crops leaflet No. 3. Forage crops recommended for Oklahoma.
Forage crops leaflet No. 8. Smooth brome.
Forage crops leaflet No. 13. Broomsedge.
Forage crops leaflet No. 17. Indian grass and Switch grass.
Forage crops leaflet No. 18. Side-oats grama.
MP-35. Pounds of fertilizer per acre for different concentrations.

PECANS

(See "Fruit Growing.")

PLANT DISEASES

(See "Field Crops," "Fruit Growing," and "Vegetable Production.")

POPULATION

(See "Human Relationships.")

POULTRY PRODUCTION

E-634. A feeding system for laying hens.
E-555. Broiler production.
E-449. Culling the laying flock.
E-417. Poultry parasites.
E-350. Poultry management for 4-H club members.
L-8. Produce good eggs.
L-2. Oklahoma's program of profit pointers for turkey growers.
L-1. Oklahoma's program of profit pointers for turkey breeders.
_____. Oklahoma's program of profit pointers for laying hens.
B-458. Comparative performance of several broiler strains and crosses with white or near-white plumage for 4-H members.
B-424. Papers and feeders vs. feeders alone for starting chicks.
B-394. Silver Oklabars; their origin and present development.
B-240. A home-made egg cooler for farm use.
C-120. Planning a year-'round poultry green feed program for Oklahoma.
T-62. Developing an autosexing Columbian-patterned variety of chickens.

SOILS

(Conservation, Fertility Maintenance, and Cropping Systems.)

E-646. Seeding native grasses for pasture and erosion control.
E-640. A new seedbed for cotton.
E-638. Our soil and its care.
E-635. Know your fertilizer.

E-625. Liming soils for better farming.
E-598. Land appreciation training schools and judging contests in Oklahoma.
E-588. Higher crop yields with lime, fertilizers and legumes.
E-572. Terrace maintenance.
E-571. Development of surface irrigation.
E-566. Your soil; know what it needs.
E-560. Improved tillage practices for better farming.
E-557. Pasture and range judging.
E-518. Soil and water conservation.
E-509. Know your soil.
E-476. Your three acres.
E-412. Soil improvement program in Oklahoma.
L-9. A new disk-type fertilizer attachment.
OP-26. Phosphorus.
B-432. Wheat fertilization studies in western Oklahoma; progress reports, 1951-52. and 1952-53.
B-360. Salt accumulation in irrigated soils; the prospect for Oklahoma.
MP-42. Soils of Wagoner county, Oklahoma.
MP-37. Amount of fertilizer per row, for gardens.
MP-36. Comparative cost per unit of nutrient element for different fertilizers.
MP-35. Pounds of fertilizers per acre for different concentrations.

VEGETABLE PRODUCTION

Variety recommendations based on annual tests under Oklahoma conditions are brought up to date each year and are available upon request. Address: Department of Horticulture, Oklahoma A. & M. College, Stillwater, Okla.

E-475. Recognition and control of vegetable diseases.
E-443. Vegetable varieties for Oklahoma.
E-414. Vegetable insect control.
E-196. Home vegetable garden.
L-3. Oklahoma's own Allgold, Redgold, and Nemagold sweet potatoes.
OP-105. Maintaining summer garden production.
B-471. A study of vegetable production and marketing in eastern Oklahoma.

B-468. A survey of spinach markets and marketing in eastern Oklahoma.
B-463. Vegetable variety trials; summary through 1954.
B-421. Studies of plant production methods for vegetable crops: cabbage, tomatoes, onions, melons and cucumbers.
C-107. Edible soybeans for Oklahoma.
MP-37. Amount of fetrilizer per row, for gardens.
MP-35. Pounds of fertilizers per acre for different concentrations.

WATER SUPPLIES

E-632. Sprinkler irrigation in Oklahoma.
E-628. Water in Oklahoma.
E-580. Farm ponds for household water supply.
E-473. Water systems for the farm home.
T-51. Measuring runoff rates with rectangular highway culverts.

WEED CONTROL

E-582. Control of weeds in Oklahoma.
E-453. Bindweed eradication in Oklahoma.

4-H PUBLICATIONS—(for project work)

(See also various subjects listings.)

E-649. 4-H sorghum manual.
E-642. 4-H projects requirements for Oklahoma.
E-631. Team demonstrations in soil; water, and range conservation.
E-600. 4-H club leader's manual.
E-585. 4-H calf manual.
E-564. Better grooming for 4-H boys.
E-559. 4-H news writing manual.
E-547. Better buying for 4-H club members.
E-543. Oklahoma 4-H club pecan project.
E-539. 4-H home demonstration IX.
E-538. 4-H home demonstration VIII.
E-537. 4-H home demonstration VII.
E-536. 4-H home demonstration VI.
E-535. 4-H home demonstration V.
E-534. 4-H home demonstration IV.
E-533. 4-H home demonstration III.
E-532. 4-H home demonstration II.
E-531. 4-H home demonstration I.
E-530. Junior leadership for 4-H members.
E-522. 4-H forestry manual.
E-520. 4-H hunting and fishing manual.
E-519. 4-H wildlife manual; section 1.
E-517. 4-H safety and fire manual.
E-469. 4-H small grain manual.
E-461. 4-H instructions for junior poultrymen.
E-445. Fitting and showing the 4-H pig.
E-366. 4-H woodwork handicraft manual.
E-324. 4-H corn manual.
E-316. 4-H horticulture projects.

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